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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/708,415	03/02/2004	Amit PREMY	TI-36317	2414
23494 75	590 12/27/2004		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			JEAN PIERRE, PEGUY	
P O BOX 6554 DALLAS, TX	•		ART UNIT PAPER NUMB	
,			2819	
			DATE MAILED: 12/27/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)				
•	10/708,415	PREMY ET AL.					
Office Action Summary	Examiner	Art Unit	· · ·				
	Peguy JeanPierre	2819	P				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period we - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rewithin the statutory minimum of thirty will apply and will expire SIX (6) MONT cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this comm ANDONED (35 U.S.C. § 133).	nunication.				
Status							
1)	action is non-final. nce except for formal matte		erits is				
Disposition of Claims							
 4) ☐ Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 5-12 is/are allowed. 6) ☐ Claim(s) 1-4, 13,19 and 23 is/are rejected. 7) ☐ Claim(s) 14-18,20-22 and 24-26 is/are objected. 8) ☐ Claim(s) are subject to restriction and/o 	vn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on is/are: a)☒ accomplicated to accomplicate may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Examine	epted or b) objected to be drawing(s) be held in abeyandion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-15	52)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 13-14, the term "wherein the cost... in the form of said die." is confusing. The preamble recites a method of testing an integrated circuit. The limitations cited above, have nothing to do with the testing of the integrated circuit. It is not clear what steps contribute to minimize the testing method. Please clarify.

2. It is suggested n claim 4, line 1, that the article "the" be added before --method--.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 13, 19, 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Sunter et al. (USP 5,659,312).

Sunter et al. disclose a method of testing a mixed integrated circuit (see abstract). The system comprises a built-in-test-control (BIST) (40), a DAC (20), an ADC (14). The ADC (14) and the analog circuits (34, 10, 28,36 24) represent a receiver block that receives the analog signal. The analog signals are being generated externally after converting

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the digital data elements (N1) by the DAC (20). The mixed integrated circuit further comprises a computation block (16 Fig.1; (44,40 Fig. 3) (see col. 4, lines 44-46) and is configured to measure a deviation as shown in Figure 4 from a signal level that corresponds to the digital data and make a decision on whether to discard/qualify the signal based on the deviation (see col. 6, lines 39-47).

Allowable Subject Matter

- 5. Claims 1-4 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 6. Claims 5-12 are allowed.
- 7. Claims 14-18, 20-22, 24-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not teach a connection between an integrated circuit and a calibrated integrated circuit in which the calibrated integrated circuit examines a mixed signal to determine whether to discard/qualify the signal; the mixed signal integrated circuit further operates with a plurality of valid symbols having a plurality of vector components contained in a constellation table and also comprises a plurality of DAC to generate a plurality of base band signals, phase shifted with respect to one another by converting corresponding vector components, a plurality of upconversion mixers that generate modulated signal, an adder to add the modulated signals to generate an analog signal.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peguy JeanPierre whose telephone number is (571) 272-1803. The examiner fax phone number is (571) 273-1803.

Peguy JeanPierre
Primary Examiner